

Netherlands Institute for Radio Astronomy

Programme:

Array status and Observatory update - R. Fallows
 MSSS update - G. Heald
 The Northstar proposal tool - W. Frieswijk
 Results from imaging busy week 18 - E. Orru'
 CEP3 - H. Holties

Array Status





Current Status:

- •37 operational NL stations
- •24 CSs
- •13 RSs
- •8 ISs

•NL stations TBB memory upgrade installation underway, most CS upgraded, firmware update likely today.

•RS210: Station testing underway, not yet part of observations.

•RS024 and RS305: connection issues, under investigation.

- •General maintenance on-going.
- •Daytime observations 'at risk' with core stations failing in the heat.

www.astron.nl/radio-observatory/astronomers/current-status

Network, CEP Status



Network

• Extensive tests planned for next week involving all international stations to try and resolve regular data connection problems.

BG/P

• Some observations failed to start on BG/P following the last Stop Day, but this seems resolved.

CEP-I/II

• Status of CEP-I disks deteriorating. Please ensure that you back up important data elsewhere!

Next stop day: Tuesday, 6 August

Superterp + CSx01





Core



AST(RON



Remote





International





CEP usage





Network and CEP Status



CEP2:

- Number of nodes hanging on occasion, mainly due to memory usage by pipelines.
- CEP1:
 - Heavy users of /data areas are requested to clean up their data regularly.
 - Staging areas are getting full. Please remember that
 Cycle 0 data have a grace period of 4 weeks in these areas. After this, they may be removed.
 - Nodes becoming increasingly unstable: Please ensure important data are backed up elsewhere.

News regarding the observing system: Stations



- Core stations have been failing in the daytime due to overheating. Currently, daytime observations must be considered at risk.
- Significant flagging of data from some international stations, particularly DE601, DE602 and DE605. To be investigated extensively next week.

News regarding the observing system: Stability and performance LOFAR

- Overall stability is good:
 - Observations are stable.
 - Pipelines are mostly stable, but some heavy memory usage on locus nodes sometimes causes problems.
- Issues:
- Observation and pipeline status updates in MoM still occasionally unreliable. Being monitored and bugfixes being put in place.
- Processing is stable, but scheduling of pipelines is still a manual process leading to overload or under-use of CEP2 on occasion.

News regarding the observing system: Archive



- The issues with incomplete meta-data in some observations are gradually being resolved, but some old observations from February remain in the queue.
- The issue with double MoM-IDs has been fixed.
- System to easily archive and retrieve data which cannot be ingested via the usual process is under development.

Cycle 0 Observations



28, 8th July	Mon	LC0_02 - PO - 4hrs								DE6 UK60 9 UT	601,2,3 8 switcl C; in ve	,5 FR60 hed to l stigatio failures	06, SE ocal m n weel	607, ode at k-end				LC0_0)12 - 40	233.33	- 10hrs	;		
	Tue																			LC0_	019 (E	oR) 6.5	h NCP)
	Wed	LC0_019 (EoR) 6.5h NCP					LC0_039 monitoring										LC0_012 - NGC6521 - 10hrs							
	Thu	LC0_ NGC652)12 - - 10hrs					MSSS - HBA - 16 hrs										_	LC0_004 - JVAS 1938+666					+666
	Fri	LC0_0		Pulsars											LC0_003 PanSTAR					LC0 J195 -3	_040 - 4+2923 2hrs			
	Sat				LC0	_012 - 3	3C35 - 10hrs									L	C0_00	3 - Zeni	th field	s - 24 ł	nrs			
	Sun		LC0_003 - Zenith fields - 24 hrs																					
Mask																								
number	week day	0 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
TEST WEEK FOR INTERNATIONAL STATIONS																								
	Mon	LC0_012 - 3C35 -						Ohrs INTERNATIONAL TESTS							STA	STATIONS					LC0_043 - NGC6946 8hrs			
29, 15th July	Tue	LC0_04	INTERNATIONAL ST						ATIONS TESTS						_019 (E	oR)7hNCP								
	Wed	LC0_019 (EoR) 7h NCP					INTERNATIONAL STAT							TIONS TESTS					Pulsars					
	Thu	Pulsars						IN	TER	NATI	IONA	LST	ATIC	ONS	TES	TS								
	Fri							IN	TER	NATI	IONA	LST	ATIC	ONS	TES	тs					LC0_	032 - 0	ygnus	X-8hrs
	Sat	LC0_0	MSSS - HBA - 8 hrs											LC0_ PanS1	003 - ARRS		LC0_	032 - 0	ygnus	X-7hrs				
	Sun	LC0_032 - Cygnus X -7 hrs					Pulsars					MSSS - HBA - 8 hrs											LC0 J193 - 3	_040 - 2+1059 2hrs

website:

https://www.astron.nl/radio-observatory/lofar/cycle-0-schedule/cycle-0-schedule

Check the schedule and inform Science Support in case of issues

Imaging Pipeline



- Characterisation for Cycle 1: Delayed due to issues with processing. Report to be given at next LSM.
- Imaging pipeline now uses the new awimager. However, some keys need to be implemented, so old settings are still used.
- Settings in Target and Imaging pipelines have meant that the first channel of each subband was ignored in averaging.
 This affects final archived data products, not intermediate products. This has been solved for future observations.

CALENDAR of requested busy weeks and other LOFAR activities



http://wwastron.nl/radio-observatory/astronomers/commissioning/commisioning-plan

6 August: Stop Day